

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P472164

Luminaire Tested: **CCW-VA-6-740-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472164
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-6-740-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10090.6 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

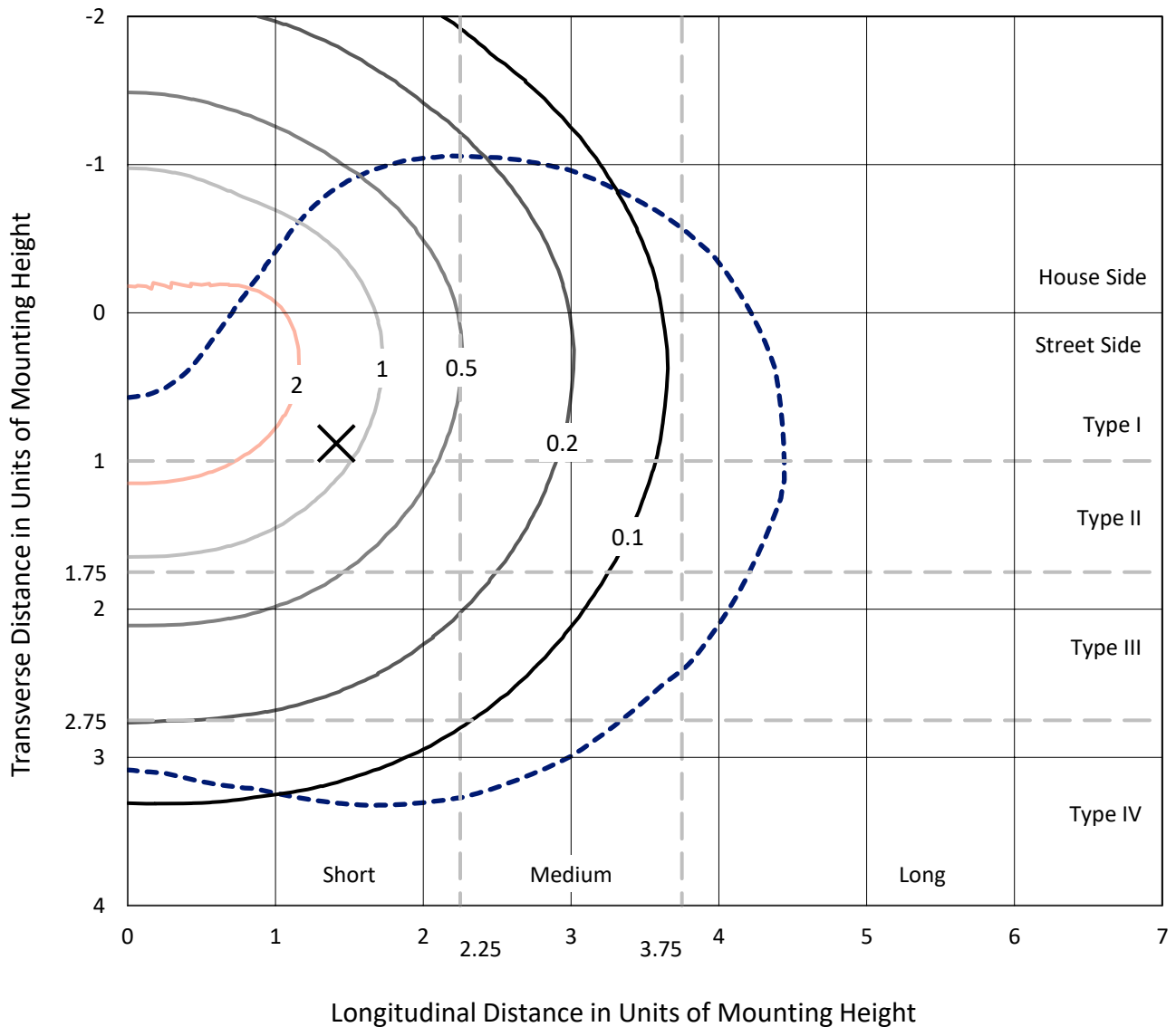
Input Watts (W): 101.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

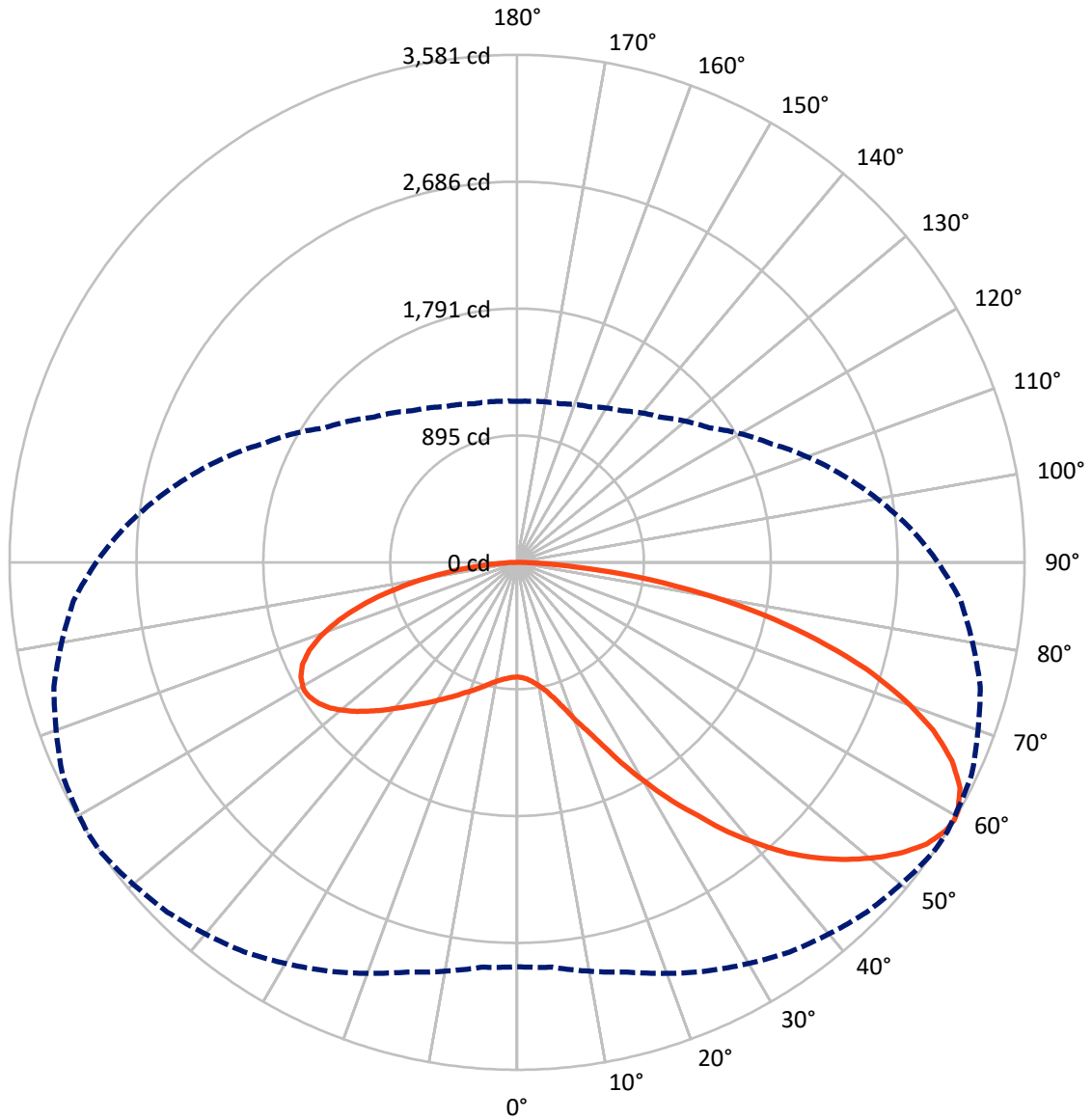
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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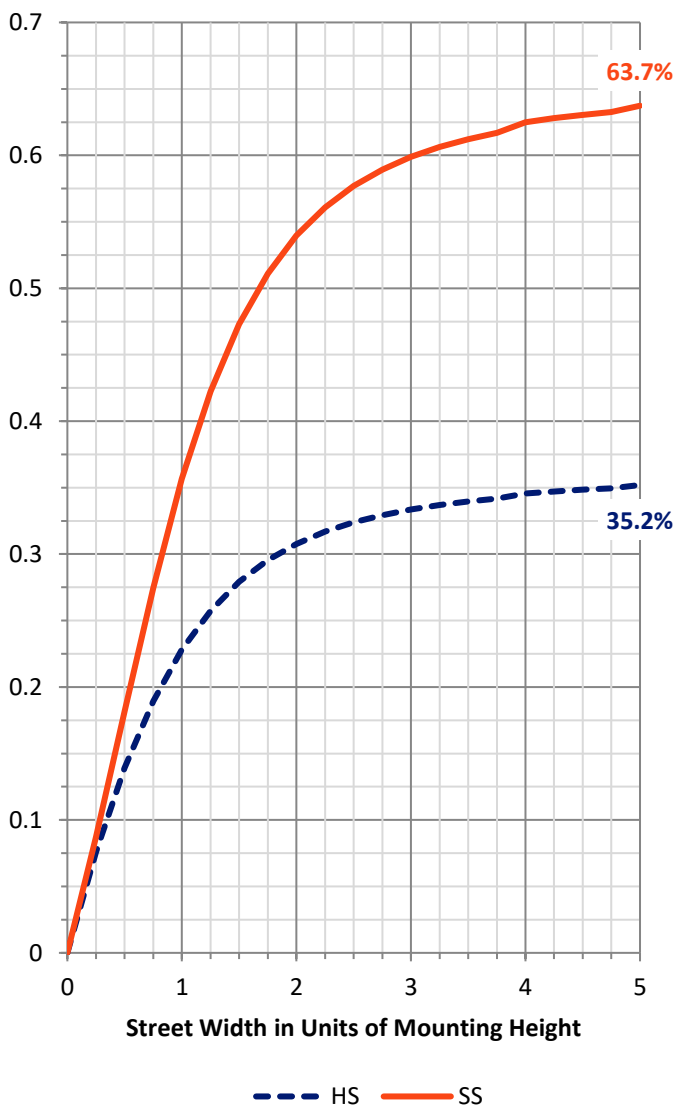
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3598.7	0.0	3598.7
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	6491.9	0.0	6491.9
	% Fixture	64.3	0.0	64.3
Total	Lumens	10090.6	0.0	10090.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	0.8
10°-20°	273.7	2.7
20°-30°	577.7	5.7
30°-40°	1063.2	10.5
40°-50°	1657.2	16.4
50°-60°	2177.6	21.6
60°-70°	2281.7	22.6
70°-80°	1582.0	15.7
80°-90°	397.2	3.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10090.6	100.0
0°-180°	10090.6	100.0

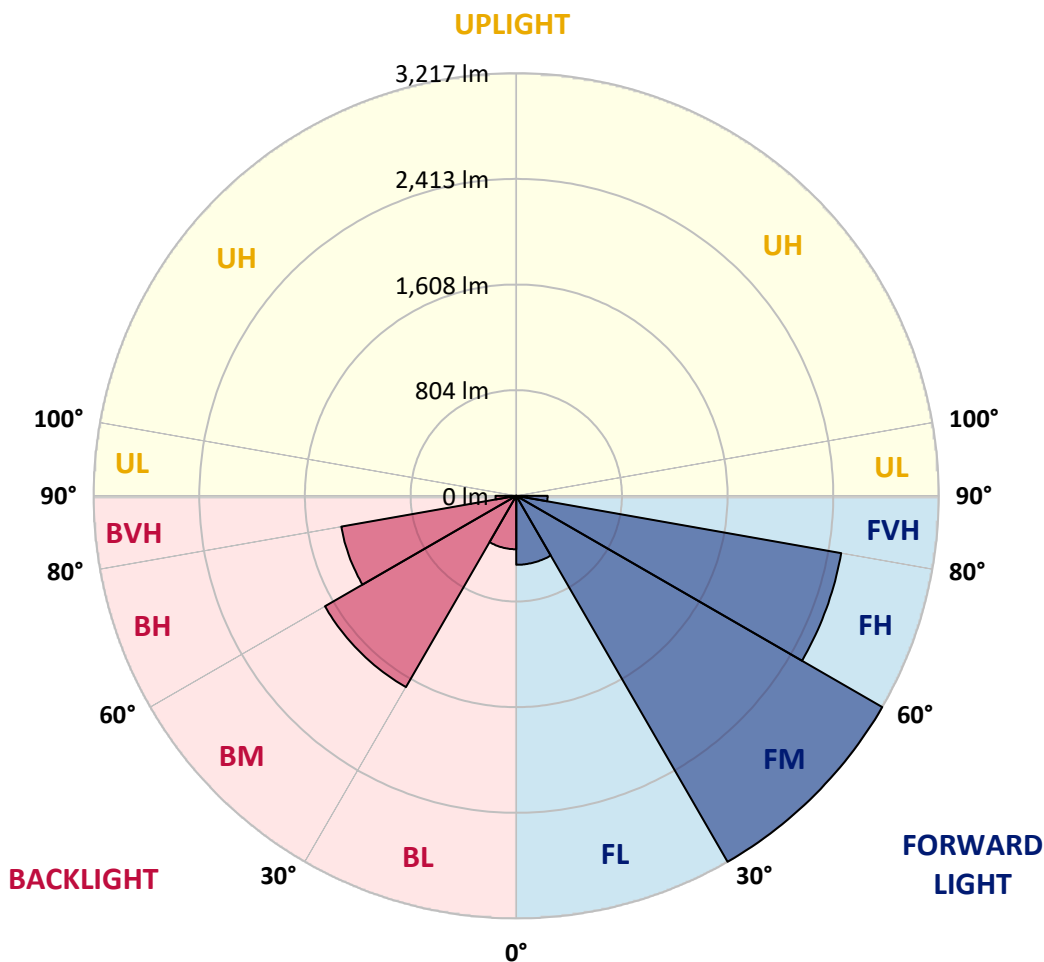


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.9	5.2			
FM (30°-60°)	3216.7	31.9			
FH (60°-80°)	2511.6	24.9			G2/5000
FVH (80°-90°)	238.7	2.4			G3/500
BL (0°-30°)	406.7	4.0	B1/500		
BM (30°-60°)	1681.3	16.7	B2/2500		
BH (60°-80°)	1352.1	13.4	B3/2500		G3/2500
BVH (80°-90°)	158.5	1.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9
2.5°	820.3	820.3	820.3	818.0	818.0	818.0	815.7	815.7	815.7	813.5	811.2
5°	838.5	838.5	836.2	838.5	836.2	833.9	831.6	831.6	831.6	829.4	827.1
7.5°	863.4	865.7	863.4	865.7	863.4	861.2	856.6	856.6	854.4	849.8	845.3
10°	902.1	902.1	902.1	899.8	897.5	895.3	893.0	890.7	888.4	881.6	874.8
12.5°	949.8	949.8	949.8	945.3	945.3	940.7	938.4	936.2	931.6	922.5	913.4
15°	1008.9	1006.6	1013.4	1013.4	1011.1	1011.1	1004.3	999.8	995.2	981.6	961.2
17.5°	1088.4	1086.1	1092.9	1097.5	1097.5	1099.8	1088.4	1083.9	1068.0	1049.8	1022.5
20°	1195.2	1190.7	1197.5	1202.0	1197.5	1202.0	1190.7	1192.9	1170.2	1138.4	1095.2
22.5°	1311.1	1311.1	1317.9	1317.9	1320.2	1324.7	1311.1	1304.3	1286.1	1240.6	1186.1
25°	1454.2	1465.6	1465.6	1465.6	1474.7	1477.0	1463.3	1452.0	1427.0	1365.6	1290.6
27.5°	1629.2	1626.9	1624.6	1638.3	1638.3	1642.8	1633.7	1629.2	1599.7	1524.7	1411.1
30°	1815.5	1801.9	1811.0	1815.5	1824.6	1831.4	1822.3	1808.7	1772.3	1690.5	1549.7
32.5°	1985.9	1995.0	2008.7	2013.2	2026.8	2029.1	2006.4	2006.4	1970.0	1865.5	1720.1
35°	2179.1	2179.1	2215.4	2231.3	2231.3	2245.0	2210.9	2192.7	2167.7	2058.6	1874.6
37.5°	2347.2	2351.8	2381.3	2417.7	2422.2	2442.7	2417.7	2410.8	2365.4	2254.1	2049.6
40°	2504.0	2508.5	2544.9	2588.1	2613.1	2644.9	2619.9	2608.5	2560.8	2433.6	2224.5
42.5°	2626.7	2635.8	2681.2	2744.9	2785.8	2824.4	2813.0	2806.2	2740.3	2606.3	2385.8
45°	2719.9	2735.8	2799.4	2874.4	2931.2	2988.0	2990.3	2976.6	2915.3	2765.3	2542.6
47.5°	2794.9	2813.0	2883.5	2978.9	3065.2	3135.7	3149.3	3133.4	3076.6	2919.8	2683.5
50°	2856.2	2865.3	2944.8	3067.5	3174.3	3262.9	3290.2	3276.6	3226.6	3049.3	2806.2
52.5°	2888.0	2901.6	2992.5	3133.4	3262.9	3369.7	3410.6	3403.8	3344.7	3167.5	2915.3
55°	2903.9	2917.6	3024.3	3185.7	3331.1	3456.1	3506.1	3508.3	3451.5	3274.3	3017.5
57.5°	2885.7	2903.9	3019.8	3199.3	3360.6	3494.7	3572.0	3569.7	3524.2	3356.1	3103.9
59°	2853.9	2867.6	2992.5	3181.1	3356.1	3490.2	3578.8	3581.0	3540.1	3383.4	3142.5
60°	2817.6	2833.5	2960.7	3158.4	3337.9	3474.2	3567.4	3572.0	3537.9	3390.2	3158.4
62.5°	2692.6	2713.0	2853.9	3065.2	3260.7	3390.2	3501.5	3508.3	3490.2	3372.0	3169.8
65°	2517.6	2535.8	2688.1	2913.0	3117.5	3251.6	3356.1	3372.0	3369.7	3290.2	3124.3
67.5°	2304.0	2306.3	2449.5	2694.9	2908.5	3040.3	3140.2	3167.5	3187.9	3135.7	2990.3
70°	2047.3	2045.0	2183.6	2426.7	2640.3	2778.9	2878.9	2897.1	2949.4	2908.5	2790.3
72.5°	1729.2	1756.4	1886.0	2090.5	2301.8	2456.3	2544.9	2579.0	2608.5	2617.6	2519.9
75°	1429.2	1458.8	1561.0	1751.9	1933.7	2076.8	2172.3	2188.2	2242.7	2256.3	2165.4
77.5°	1142.9	1145.2	1220.2	1372.4	1538.3	1656.5	1733.7	1774.6	1804.2	1831.4	1736.0
80°	802.1	813.5	865.7	974.8	1104.3	1229.3	1292.9	1320.2	1340.6	1358.8	1327.0
82.5°	502.2	506.7	540.8	606.7	695.3	765.7	831.6	854.4	858.9	899.8	895.3
85°	238.6	240.9	263.6	295.4	334.0	390.8	415.8	415.8	447.6	477.2	477.2
87.5°	31.8	31.8	38.6	43.2	54.5	70.4	97.7	100.0	118.2	131.8	143.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9	808.9
2.5°	811.2	811.2	811.2	811.2	811.2	808.9	811.2	811.2	811.2	811.2	811.2
5°	827.1	824.8	822.5	820.3	820.3	818.0	818.0	818.0	818.0	818.0	818.0
7.5°	843.0	840.7	838.5	833.9	831.6	829.4	829.4	827.1	827.1	827.1	827.1
10°	870.3	868.0	858.9	852.1	847.5	845.3	843.0	840.7	838.5	838.5	838.5
12.5°	906.6	902.1	886.2	877.1	870.3	865.7	861.2	858.9	856.6	854.4	854.4
15°	952.1	940.7	920.3	906.6	897.5	890.7	883.9	879.4	877.1	874.8	874.8
17.5°	1006.6	993.0	965.7	940.7	924.8	913.4	904.3	897.5	895.3	895.3	895.3
20°	1074.8	1052.0	1013.4	979.3	954.3	938.4	924.8	918.0	915.7	913.4	911.2
22.5°	1154.3	1124.8	1068.0	1015.7	983.9	961.2	945.3	936.2	929.3	927.1	927.1
25°	1245.2	1202.0	1127.0	1063.4	1020.2	988.4	968.0	956.6	945.3	940.7	940.7
27.5°	1354.3	1297.4	1197.5	1113.4	1054.3	1015.7	993.0	977.1	965.7	956.6	952.1
30°	1472.4	1408.8	1274.7	1167.9	1092.9	1049.8	1022.5	1004.3	988.4	972.5	970.2
32.5°	1622.4	1531.5	1367.9	1229.3	1138.4	1083.9	1052.0	1029.3	1008.9	993.0	988.4
35°	1774.6	1665.5	1465.6	1292.9	1181.6	1115.7	1077.0	1052.0	1031.6	1013.4	1011.1
37.5°	1931.4	1815.5	1572.4	1367.9	1231.6	1152.0	1104.3	1077.0	1052.0	1033.9	1031.6
40°	2095.0	1958.7	1681.5	1445.1	1283.8	1188.4	1133.8	1099.8	1072.5	1056.6	1054.3
42.5°	2249.5	2101.8	1799.6	1536.0	1345.2	1227.0	1163.4	1127.0	1092.9	1077.0	1074.8
45°	2397.2	2238.2	1917.8	1620.1	1406.5	1267.9	1192.9	1149.8	1113.4	1097.5	1095.2
47.5°	2531.3	2372.2	2026.8	1711.0	1470.1	1313.4	1224.7	1172.5	1131.6	1115.7	1115.7
50°	2651.7	2485.8	2133.6	1795.1	1529.2	1358.8	1252.0	1192.9	1152.0	1136.1	1133.8
52.5°	2765.3	2585.8	2226.8	1867.8	1586.0	1399.7	1279.3	1208.8	1165.7	1147.5	1145.2
55°	2856.2	2676.7	2304.0	1926.9	1624.6	1427.0	1297.4	1217.9	1170.2	1154.3	1152.0
57.5°	2935.7	2751.7	2358.6	1967.8	1649.6	1442.9	1306.5	1217.9	1167.9	1149.8	1147.5
59°	2969.8	2783.5	2376.8	1979.1	1654.2	1445.1	1304.3	1211.1	1158.8	1140.7	1136.1
60°	2988.0	2797.1	2383.6	1981.4	1651.9	1440.6	1302.0	1204.3	1149.8	1129.3	1129.3
62.5°	3006.2	2808.5	2374.5	1963.2	1626.9	1415.6	1279.3	1177.0	1115.7	1092.9	1092.9
65°	2967.5	2767.6	2322.2	1913.2	1576.9	1372.4	1236.1	1131.6	1063.4	1040.7	1040.7
67.5°	2853.9	2667.6	2226.8	1820.1	1495.1	1297.4	1165.7	1058.9	995.2	970.2	963.4
70°	2660.8	2504.0	2076.8	1686.0	1383.8	1202.0	1077.0	974.8	908.9	883.9	874.8
72.5°	2401.8	2247.2	1876.9	1522.4	1236.1	1077.0	968.0	870.3	797.6	772.6	774.8
75°	2045.0	1935.9	1617.8	1315.6	1065.7	918.0	827.1	745.3	683.9	663.5	665.8
77.5°	1658.7	1567.8	1311.1	1072.5	870.3	756.7	679.4	613.5	572.6	561.2	554.4
80°	1270.2	1181.6	983.9	799.8	661.2	581.7	529.4	484.0	452.2	436.3	440.8
82.5°	852.1	797.6	652.1	529.4	449.9	393.1	374.9	345.4	334.0	324.9	331.7
85°	459.0	411.3	340.8	284.0	247.7	231.8	236.3	234.0	225.0	222.7	229.5
87.5°	150.0	129.5	100.0	84.1	86.3	77.3	77.3	72.7	65.9	63.6	68.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)